CLAIMS

What is claimed is:

	1	1.	A method of managing a shared object in an object-oriented environment, the method
	2		comprising the steps of:
	3		generating only a single instance of said shared object in response to attempts by a
	4		plurality of clients to create an instance of a particular object belonging to a
	5		class to which said shared object belongs;
	6		a first client of said plurality of clients invoking a first method of said shared object to
Tend Tends	7		register an observer object to notify about an event related to execution of a
المطا المماا المماا المما	8		particular operation;
uch thurst though third	9		each client of said plurality of clients invoking a second method of said shared object
Arrived House	10		to request execution of said particular operation; and
9	11		when the shared object performs the particular operation requested by the first client,
երք կոյն կուս դաբ վար	12		sending a first message to each observer object that has been registered for the
	13		particular operation requested by said first client.
	1	2.	The method of Claim 1, wherein the steps further include sending a
	2		second message about another event related to execution of the
	3		particular operation requested by the first client to said observer object
	4		that was registered by said first client.

The method of Claim 2, wherein:

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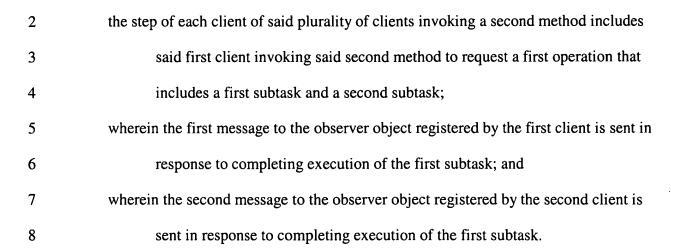
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- 4. The method of Claim 1, further including the step of a first client invoking another method of said shared object to register another observer object about another event related to execution of said first operation; and wherein said other method is different than said first method.
- 5. The method of Claim 1, further including the step of said shared object creating, for each client of said plurality of clients, a client specific object that stores data associated with said each client.
- The method of Claim 5, wherein the method further includes invoking a particular
 method of said client specific object created for said first client that returns
 information that may be used to access the observer object that was registered by said
 first client.
- 1 7. The method of Claim 5, wherein the steps further include:
- 2 said shared object invoking a method of said client specific object; and

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3		in response to said shared object invoking the method of said client specific object,
4		storing a reference value to the observer object for said first client.
1	8.	The method of Claim 5, wherein the step of invoking the method of said client
2		specific object is performed in response to the attempt by said first client to create an
3		instance of a particular object belonging to a class to which said shared object
4		belongs.
1	9.	The method of claim 1, wherein the steps include:
2		for each client of said plurality of clients, performing the following steps when the
3		shared object performs the particular operation requested by said first client:
4		identifying said each client;
5	,	determining whether said each client has registered an observer object about
6		the event related to execution of the particular operation requested by
7		said first client; and
8		if said each client has registered an observer object, then sending a first
9		message to said observer object by invoking said second method of
10		said observer object.
1	10.	The method of Claim 1, wherein the step of sending a first message to each observer
2		object that has been registered for the particular operation requested by said first

client includes sending a first message to each client of said plurality of clients.

11.

A method of managing a shared object in an object-oriented environment, the method
comprising the steps of:
generating only a single instance of said shared object in response to attempts by a
plurality of clients to create an instance of a particular object belonging to a
class to which said shared object belongs;
a first client of said plurality of clients invoking a first method of said shared object to
register an observer object to notify about an event related to execution of a
particular operation;
each client of said plurality of clients invoking a second method of said shared object
to request execution of said particular operation; and
for each client of said plurality of clients, when the shared object performs the
particular operation requested by said each first client, sending a first message
to each observer object that has been registered for the particular operation
requested by said first client.